

This listing of claims will replace all prior versions, and listings, of claims in the application.

### LISTING OF CLAIMS

1. (currently amended) A hearing device, comprising:
  - 5 a radio device to transmit signals to a second hearing device, the radio device comprising:
    - an antenna device ~~for to perform at least one of~~ transmitting and receiving, the antenna device comprising a self-exciting oscillation circuit, including a coil and a first capacitor;
  - 10 the radio device further comprising:
    - a first switch; and
    - an amplifier and a series connection of a second capacitor and a second switch being connectable in parallel to the first capacitor by the first switch, so that the antenna circuit is excited by the amplifier when the first switch is in its
    - 15 conductive state and a resonance frequency of the self-exciting oscillation circuit can be modulated by switching the second switch while the first switch is in its conductive state.
- 20 2. (original) The hearing device according to claim 1, wherein the antenna device consists exclusively of an LC oscillation circuit.
3. (original) The hearing device according to claim 1 further comprising a receiving device comprising a median filter device configured to reduce noise  
25 signals.

4. (original) The hearing device according to claim 1, wherein a half-duplex transmission line is established with the radio device.
5. (original) The hearing device according to claim 1, wherein a signal  
5 transmission is implemented in the long-wave range with the radio device.
6. (previously presented) A hearing device, comprising:
- a receiving device configured to receive a plurality of values representing frequencies of at least one radio signal, the receiving device  
10 comprising a median filter device with which a median value of the plurality of values representing frequencies is determined for noise signal prevention; and
- an antenna device with a self-exciting LC oscillation circuit, wherein the LC oscillation circuit generates a carrier frequency for transmission and  
15 clocks the median filtering by the median filter.
7. (cancelled).
8. (previously presented) The hearing device according to claim 6, wherein the  
20 antenna device consists exclusively of the LC oscillation circuit.
9. (original) The hearing device according to claim 6, further comprising a transmitter device configured to permit a half-duplex transmission line to be established with the receiving device and the transmitter device.
- 25
10. (original) The hearing device according to claim 6, wherein the receiving device is configured to receive in the long-wave range.

11. (original) The hearing device according to claim 6, wherein each of the plurality of values is a measure for a period duration of the self-exciting oscillation circuit.

5

12. (currently amended) The [[A]] hearing device according to claim 1, further comprising:

10       ~~a radio device to transmit signals to a second hearing device, the radio device comprising an antenna device to perform at least one of transmitting and receiving, the antenna device comprising a self-exciting oscillation circuit;~~

a receiving device; ~~and~~

15       wherein the self-exciting oscillation circuit is an LC oscillation circuit that is configured both to generate a carrier frequency for transmission and to clock the receiving device.

13. (original) The hearing aid device according to claim 12, wherein the LC oscillation circuit is used to clock a filter device of the receiving device.

20   14. (currently amended) A hearing device, comprising:

a radio device to transmit signals to a second hearing device, the radio device comprising an antenna device to perform at least one of transmitting and receiving, the antenna device comprising a self-exciting oscillation circuit; and

25       a receiving device configured to receive a plurality of values of at least one radio signal, the receiving device comprising a median filter device with which a median value of the plurality of values is determined for noise signal prevention; ~~and~~

wherein the ~~an~~ antenna device ~~comprising a~~ self-exciting oscillation circuit  
comprises ~~comprising~~ an LC oscillation circuit, and wherein the LC  
oscillation circuit is used both to generate a carrier frequency for  
transmission and to clock the receiving device.

5

15. (original) The hearing aid device according to claim 14, wherein the LC  
oscillation circuit is used to clock a filter device of the receiving device.

16. (currently amended) A method for noise signal reduction in hearing device  
10 receiving signals, comprising:

transmitting signals by a radio device of a first hearing device to a second  
hearing device;

performing, by an antenna device, which comprises a self-exciting  
oscillation circuit, of a radio device of the first hearing device, at  
15 ~~least one of the~~ transmitting and receiving, ~~the antenna device~~  
~~comprising a self-exciting oscillation circuit~~;

receiving a plurality of values representing frequencies of at least one  
radio signal via the first hearing device;

median filtering of the plurality of values representing frequencies to  
20 produce a median value for a noise signal reduction; and

providing an LC oscillation circuit that both generates a carrier frequency  
for transmission and clocks the median filtering.

17. (previously presented) A hearing device, comprising:

25 a radio device to transmit signals to a second hearing device, the radio  
device comprising an antenna device to perform at least one of  
transmitting and receiving, the antenna device comprising a self-  
exciting oscillation circuit;

- a receiver for receiving a plurality of values of at least one radio signal via a hearing device;
- a median filter for median filtering of the plurality of values to produce a median value for a noise signal reduction; and
- 5 an LC oscillation circuit that both generates a carrier frequency for transmission and clocks the median filtering.

18. (new) A hearing device, comprising:

- 10 a receiving device configured to receive a plurality of values of at least one radio signal, the receiving device comprising a median filter device with which a median value of the plurality of values is determined for noise signal prevention; and
- 15 a radio device with an antenna device comprising a self-exciting oscillation circuit comprising an LC oscillation circuit including a coil and a first capacitor, wherein the LC oscillation circuit is used both to generate a carrier frequency for transmission and to clock the receiving device;
- the radio device further comprising:
  - a switch; and
  - 20 a second capacitor being connectable in parallel to the first capacitor by the switch, so that a resonance frequency of the self-exciting oscillation circuit can be modulated by switching the switch.

19. (new) A method for noise signal reduction and hearing device receiving  
25 signals, comprising:

- receiving a plurality of values representing frequencies of at least one radio signal via an antenna device of a hearing device, the antenna device comprising a self-exciting oscillation circuit; and

median filtering of the plurality of values representing frequencies to produce a median value for a noise signal reduction by using the self-exciting oscillation circuit to clock the median filtering.